



A CSW Industrials Company

PRODUCT DATA SHEET

SAFE-T-SWITCH® SSL (ELBOW)

For primary or auxiliary outlets on primary drain pans
For closet applications with limited space

Description

With its 90-degree design, Safe-T-Switch SSL (Elbow) offers effective overflow protection for tight spaces. It detects leaks and shuts off the system to prevent water damage. It features an adjustable float level, code-compliant cleanout, and compatibility with sloped installations (up to 20°). Includes a cleanout tool, threaded adapter, and plug.

Component List: (Fig. 1)

(1) Cap/Float Subassembly (includes Stem/Wire) (2) 3/4" NPT Fitting (3) Elbow
(4) End Cap (5) Cleanout Tool (6) Warning Sticker (not shown)



US Patent No. 10,406,570

Specifications

24-Volts A/C, Maximum 1.25 Amp. Carrying Capacity, 6ft., 18 AWG Lead Wires.



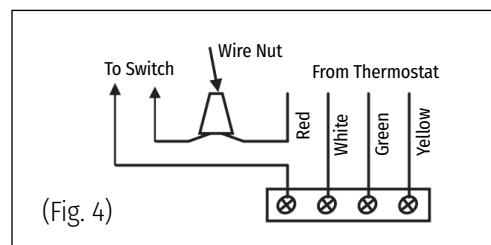
24 Volt AC, 1.25 Amp, GP, Use in Class 2
(Thermostat) Circuit Only

Maintenance

Open the Cap/Float Subassembly to inspect, clean and test this device at least every 180 days and following every cleaning of the drain line. **1.** Remove the Cap/Float Subassembly. **2.** Clear debris or any other obstacles inside Tee and around the Cap/Float Subassembly. **3.** Check for any damage. If damage is observed, replace this product with a new one. **4.** Test switch function by following Step 6-8 in the "PRIMARY DRAIN PAN INSTALLATION" section. If this product failed function test, replace it with a new one. **5.** Add drain line cleaners if desired (such as RectorSeal Nu-Line™). **6.** Reinstall and secure the Cap/Float Subassembly.

Wiring

⚠ WARNING **1.** Disconnect power to A/C unit at the main panel prior to performing electrical work. **2.** If not present, it is recommended that an inline fuse be installed to protect 24-volt circuit and time delay be configured to avoid rapid cycling of equipment. **3.** Locate the 24-volt thermostat cable entering the air handler unit. **4.** Disconnect or cut the red wire and connect to switch lead using wire nut. Connect other switch lead to air handler terminal. Incorporating switch in red circuit shuts down entire unit. If placed in the yellow circuit, fan continues to run (to inhibit mold growth during long absences). **5.** Reconnect power to the A/C unit.

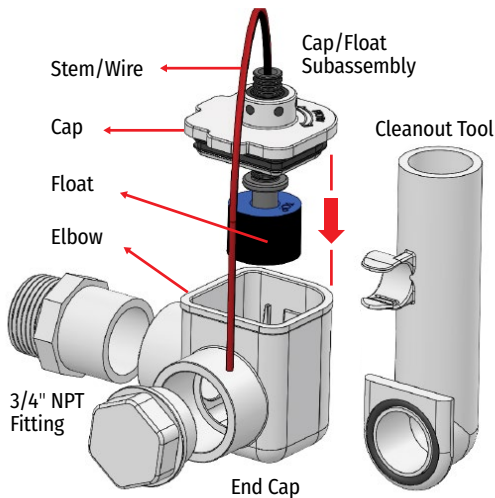


Packaging

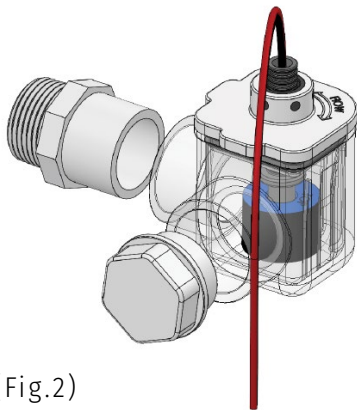
Code	Size	Qty. per Case	Lbs. per Case	Cubic Ft per Case
97095	SAFE-T-SWITCH SSL	24	13	0.85

SAFE-T-SWITCH® SSL (ELBOW)

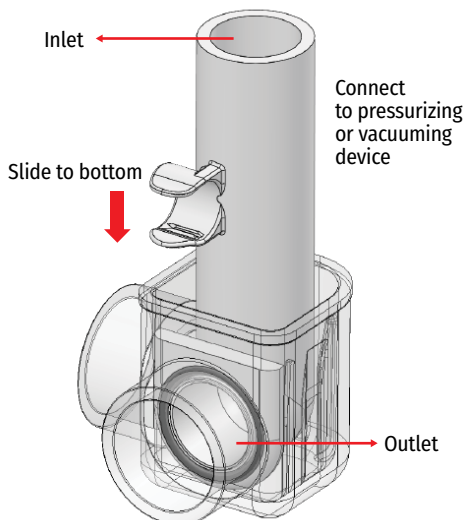
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(Fig.1)



(Fig.2)



(Fig.3)

Installation Instructions:

Notice: Failure to read and comply with all warnings, cautions and instructions prior to starting installation may cause personal injury and/or property damage and void the warranty.

Note: This device works with both $\frac{3}{4}$ " and 1" drain pipes. Ensure SSL installation does not exceed 1 foot below the drain pan outlet. **INSTRUCTIONS FOR 1" DRAIN PIPE:** Add a 1" socket coupling (not included) to connect the Elbow to 1" drain pipe.

PRIMARY DRAIN PAN INSTALLATION

1. Disconnect power to the air conditioner (A/C) unit at the main panel. **2.** Thread the Adaptor to the drain port of the primary drain pan. **3.** Glue the $\frac{3}{4}$ " inlet of Elbow onto the Adaptor. Ensure the Stem is as vertical as possible, angled no more than 20° from vertical orientation. **4.** Elow Outlet: (A) For Plugged Installation on auxiliary outlets, seat end cap firmly into $\frac{3}{4}$ " outlet of Elbow, ensuring it is water tight. DO NOT GLUE. Pipe tape may be required to ensure seal. (B) For Inline Installation, glue $\frac{3}{4}$ " outlet of Elbow onto drain line. **5.** Wire the switch per instructions under WIRING (Fig. 4). **6.** Remove the Cap/Float Subassembly from the Elbow. Test the switch by lifting the Float while the unit is running. If wired correctly, the unit will stop. **7.** Secure the Cap/Float Subassembly (A) Press Cap Subassembly into the Elbow until the rim of the Cap is flush against the Elbow. DO NOT GLUE THE CAP/FLOAT SUBASSEMBLY TO THE ELBOW. (Fig. 1) (B) It is recommended to push the Stem to the bottom position for the most sensitive water detection (Fig. 2). If sensitivity needs to be adjusted, move the stem up or down accordingly. Do not pull on wires to adjust. **8.** Test switch sensitivity: Plug drain downstream from installation point and run unit to fill pan. Float should rise and A/C unit should stop before pan overflows. (A) If the pan overflows, increase switch sensitivity by: 1. Plumbing the entire assembly lower, or 2. Pushing the Stem down. (B) If the unit stops undesirable (too sensitive), reduce the switch sensitivity by: 1. Shifting the entire assembly higher, or 2. Pulling the Stem up. Do not pull on wires to adjust. **9.** Place the included Warning Sticker on a visible surface, such as the air handler or condenser unit.

DIRECTIONAL CLEANOUT TOOL INSTRUCTIONS:

1. Take out the Cleanout Tool from the package. **2.** Remove Cap/Float Subassembly from the Elbow. **3.** Clear debris or any other obstacles inside the Elbow. **4.** Face the Cleanout Tool outlet (Fig. 3) towards the drain line to be cleaned (either upstream or downstream depending on where the blockage is). Insert the Cleanout Tool into the Elbow. **5.** Attach a pressurizing (or vacuuming) device (such as RectorSeal Mighty Pump™, or RectorSeal Lineshot™) to Cleanout Tool's inlet. Pump or vacuum until the blockage is cleared. **6.** Completely shut off the pressurizing (or vacuuming) device and disconnect it from Cleanout Tool. **7.** Remove the Cleanout Tool from the Elbow and clip it back to the package. **8.** Install the Cap/Float Subassembly back into the Elbow and press it tight.

⚠ WARNING

IMPORTANT SAFETY INFORMATION:

WARNINGS: **1.** This device must be installed strictly in accordance with manufacturer's instructions (to ensure proper operation) and in accordance with all applicable local plumbing, drainage and electrical codes. **2.** Electric shock hazard. Disconnect power supply before installing this product to avoid electrical shock and/or equipment damage. Use in Class 2 (thermostat) circuit only, not to exceed 24-volts, 1.25 amps to avoid damage or fire hazard.

⚠ CAUTION

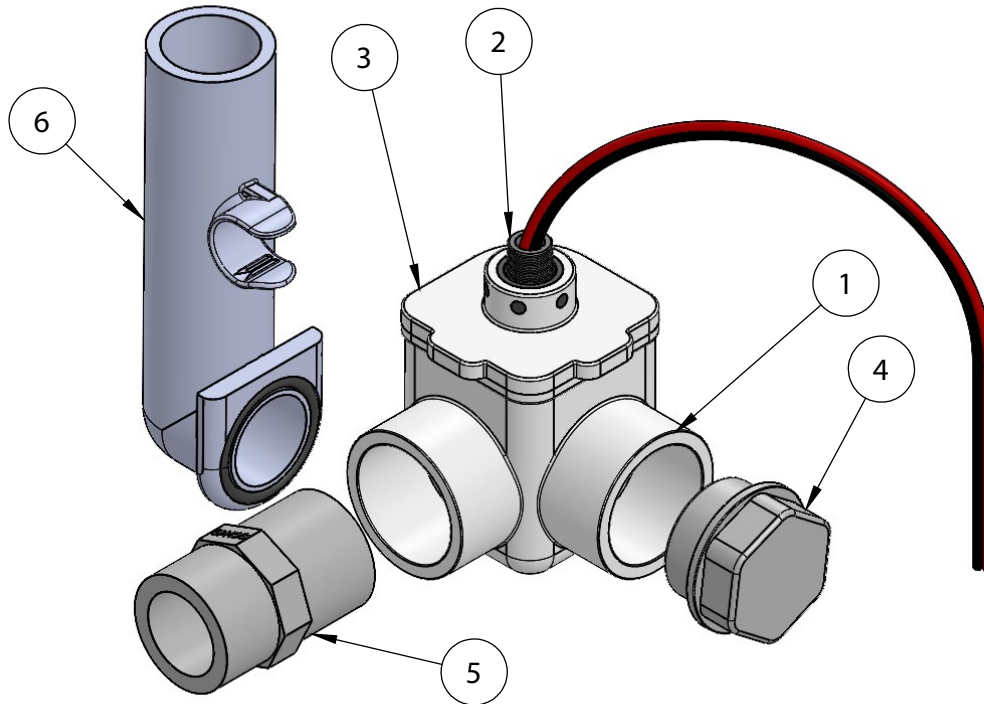
CAUTIONS: **1.** This device will not detect clogs occurring upstream from the installation point. **2.** If not present, it is recommended that a fuse and time delay be installed, to protect the 24-volt circuit and avoid rapid cycling of equipment, prior to installing this product. **3.** This product is intended for use in water only. Not for use in the presence of flammable liquids or vapors. **4.** Refer to the appropriate HVAC equipment operation manual prior to installing this product. **5.** Do not use on dual compressor systems.

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Safe-T-Switch SSL Assembly

SIZE	DRAWING		REV	SCALE	WEIGHT
	Number	Date			
A	ASB00000725	10/25/2024	A	1:2	--



Item No.	Part Number	Description	Quantity
1	FAB00001941	SS Elbow Housing	1
2	ASB00452	Stem Assembly	1
3	FAB00001942	SS Elbow Cover	1
4	FAB00181	End Cap	1
5	FAB01291	Adapter	1
6	ASB00451	L Shape Cleaning Tube Assembly	1

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Limited Warranty



For more information on our product limited warranty, visit [RectorSeal.com](https://www.rectorseal.com)

Manufactured by

RectorSeal, LLC

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